

Abstract

[The present invention provides] a light source device comprising: a light conductor which has a first light incident end surface, a second light incident end surface and a light emitting surface; a first primary light source and a second primary light source which are disposed respectively adjacent to the first light incident end surface and second light incident end surface; and a light deflecting element which has a light incident surface disposed facing the light emitting surface and a light emitting surface, wherein a directional light emitting functional part with an average inclination angle of 0.5 to 15° is formed on at least one surface of the light conductor, i.e., the light emitting surface or back surface, a plurality of mutually parallel prism rows extending in a direction parallel to the first light incident end surface and second light incident end surface are formed on the light incident surface of the light deflecting element, [each of these] prism rows has a first prism surface on the side close to the first primary light source and a second prism surface on the side close to the second primary light source, the first prism surface has a first region and a second region that extend in the direction of extension of the prism rows, the vertical angle of the prism rows is 80 to 120°, the difference in the angle of inclination between the first region and second region is 5 to 20°, and the second region has a smaller angle of inclination than the first region.

[Key to Figure 10 (from top to bottom):]

LUMINOSITY (RELATIVE VALUE)
ANGLE (°)

[Key to Figure 12 (from top to bottom):]

LUMINOSITY (RELATIVE VALUE)
ANGLE (°)

[Key to Figure 14 (from top to bottom):]

LUMINOSITY (RELATIVE VALUE)
ANGLE (°)

[Key to Figure 16 (from top to bottom):]

LUMINOSITY (RELATIVE VALUE)
ANGLE (°)

[Key to Figure 18 (from top to bottom):]

LUMINOSITY (RELATIVE VALUE)
ANGLE (°)